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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,393	06/30/2006	Masanori Omote	450100-05036	3343
75%0 06/23/2699 William S Frommer Frommer Lawrence & Haug			EXAM	INER
			MARC, MCDIEUNEL	
745 Fifth Aver New York, NY			ART UNIT	PAPER NUMBER
,			3664	
			MAIL DATE	DELIVERY MODE
			06/23/2000	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)		
10/551,393	OMOTE, MASANORI		
Examiner	Art Unit		
MCDIEUNEL MARC	3664		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

Statu	_		

A SHORTENED STATUTORY PERIOD FOR REPLY IS SEWHICHEVER IS LONGER, FROM THE MAILING DATE OF Letressons of time may be available under the provisions of 37 CFR 1.136(a). In after SK (b) (MATTER from the nating other of the communication of the	F THIS COMMUNICATION. no event, however, may a repty be timely filed and will expire SIX (6) MONTHS from the mailing date of this communication. e application to become ABANDONED (36 U.S.C. § 133).
Status	
1) Responsive to communication(s) filed on 3/4/2009.	
2a)⊠ This action is FINAL. 2b)⊠ This action	is non-final.
3) Since this application is in condition for allowance exc	cept for formal matters, prosecution as to the merits is
closed in accordance with the practice under Ex parte	Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims	
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.	
4a) Of the above claim(s) is/are withdrawn from	n consideration.
5) Claim(s) is/are allowed.	
6)⊠ Claim(s) <u>1-13</u> is/are rejected.	
7) Claim(s) is/are objected to.	
8) Claim(s) are subject to restriction and/or election	on requirement.
Application Papers	
9) The specification is objected to by the Examiner.	
10)⊠ The drawing(s) filed on 29 September 2005 is/are: a)	☑ accepted or b)  objected to by the Examiner.
Applicant may not request that any objection to the drawing	• • • • • • • • • • • • • • • • • • • •
_ ' ' ' ' '	equired if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Examine	r. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	
12) Acknowledgment is made of a claim for foreign priority	under 35 U.S.C. § 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:	
<ol> <li>Certified copies of the priority documents have</li> </ol>	
2. Certified copies of the priority documents have	
Copies of the certified copies of the priority doc	_
application from the International Bureau (PCT	,
* See the attached detailed Office action for a list of the	certified copies not received.
Attachment(s)	
Notice of References Cited (PTO-892)     Notice of Professoratio Releast Proving Review (RTO 048)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date
Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application

Notice of References Cited (PTO-892)	<ol> <li>Interview Summary (PTO-413)</li> </ol>
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date
3) Information Disclosure Statement(s) (PTO/95/08)	<ol> <li>S). Notice of Informal Patent Application.</li> </ol>
Paper No(s)/Mail Date	6) Other:

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#### DETAILED ACTION

Claims 1-13 are pending.

- The objection to the abstract had been withdrawn.
- The rejection to claim 5 under 35 U.S.C. 101 and 35 U.S.C. 112, first paragraph had been withdrawn.
- The rejection to claims 1-5 rejected under 35 U.S.C. 102(e) as being anticipated by Glenn et al. (U.S. Pat. No. 6,763,282) is withdrawn.
- Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection including new added claims 6-13.

### Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim

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term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "measuring a quality of communication of radio signals" in claims 1, 4 and 5 are used by the claim to mean "measuring", while the accepted meaning is "compatible signals from one device to another." The term is indefinite because the specification does not clearly redefine the term. Also the claims do not define how the measuring being done and to what degree the measuring being done.

All claims depending from a rejected base claim are also rejected as containing the same deficiencies.

### Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glenn et al.
 (U.S. Pat. No. 6,763,282) in view of GASIL (General Avialtion Safety Information Leaflet 2002).

As per claim 1, 4 and 5, Glenn et al. teaches a system and an associated robot that uses impulse radio technology having an autonomous robot apparatus which communicates with a communication apparatus by radio and independently determines an action in accordance with an instruction from a user or a surrounding environment (see figs. 11 and 13, wherein receiving instruction from a user is inherent), the robot apparatus comprising: measuring means for measuring the quality of communication of radio signals received from the communication apparatus (see Figs. 9, 10, 14 and 19, col. 3, lines 49-57); determining means for determining the action on the basis of the communication quality measured by the measuring means (see col. 1, lines 52-63, wherein radar capabilities, monitoring and control being interpreted as measuring the quality of the communication); and processing means for performing a process of allowing the robot apparatus to (see fig. 13, element 1306); and with respect to claim 5, the program is embedded in a computer readable medium for executing all the above mentioned limitations. Glenn et al. does not specifically teach physically communicate loss of radio communication with the communication apparatus to the user.

GASIL teaches physically communicate loss of radio communication with the communication apparatus to the user (see page 16, first to third paragraph). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the robot type of Glenn et al., with the radio communication type of GASIL, because this modification would have provided the well known radio communication features Glenn's et al. for example, thereby improving the efficiency and the reliability of the system and method of information processing of a robot.

As per claim 2, Glenn et al. teaches a robot that uses impulse radio technology wherein the determining means determines the action on the basis of the details of the current action of the robot apparatus and the communication quality measured by the measuring means (see col. 1, lines 52-63 as noted above).

As per claims 3, 7, 10 and 11, Glenn et al. teaches a robot that uses impulse radio technology wherein the determining means determines the generation of predetermined speech, and the processing means outputs the speech through a speaker (see col. 15, lines 66 -- to - col. 16, line -3, wherein using speaker for outputting sound in robotics being considered as known in the art. See flakey for instance).

As per claim 6, Glenn et al. teaches a robot wherein the radio signals measured for a predetermined time and for a predetermined threshold (see col. 1, lines 12-49).

As per claim 8, Glenn et al. teaches a robot wherein measuring is supplied from sensors (see Fig. 10, element 1006a).

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As per claim 9, Glenn et al. teaches a robot wherein measuring means outputs state recognition information for the sensors (see Fig. 10).

As per claim 12, Glenn et al. teaches a robot wherein a next action based on the state recognition information from a storage means and clapse time (see Fig. 10, element 1006a, wherein by design choice a video camera contain all the above features).

As per claim 13, Glenn et al. teaches a robot wherein the communication quality includes signal strength corresponding to resistance to noise or error rate in a communication packet due to burst interference (see col. 14, lines 37-58).

#### Response to Arguments

 As to the reference not teaching "measuring the quality of the communication of radio signals" (see Figs. 9, 10, 14 and 19, col. 3, lines 49-57).

As to the reference not teaching "determining an action based on the communication quality and allowing the robot apparatus to communicate the action" (see Figs. 9 and 10, wherein the action of the robot communicate its action to the control station, and communication quality as been considered as compatible signals).

As to the reference not teaching "communicate the action determined to a user" (see Figs. 9 and 10, wherein action has been communicate to the control station which being control by a user).

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13. Applicant's arguments filed 03/04/2009 have been fully considered but they are not

persuasive.

14. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to MCDIEUNEL MARC whose telephone number is (571)272-

6964. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Khoi Tran can be reached on (571) 272-6919. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/McDieunel Marc/

Examiner, Art Unit 3664 Friday, June 12, 2009

/KHOI TRAN/

Supervisory Patent Examiner, Art Unit 3664